Metode Pembelajaran Interaktif-Efektif pada Matakuliah Paleontologi Jurusan Teknik Geologi FTM UPN "Veteran' Yogyakarta

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ABSTRAK

Ide-ide kreatif dalam metode pembelajaran Interaktif-Efektif pada Matakuliah Paleontologi antara lain: Display Keterdapatan Fosil-fosil terkenal contohnya di Pulau Jawa; Penerapan teori Prior Probability dengan Simulasi Paku; dan Penerapan Metode Kemiripan Maksimum: dalam pengamatan komponen penyusun litofacies dalam tatanan komplek terumbu karang contoh Formasi Rajamandala di dinding dan lantai Gedung Auditorium UPNVY.

Display keterdapatan fosil-fosil di Pulau Jawa menjelaskan lokasi penemuan sejumlah fosil-fosil penting di Jawa. Lokasi penemuan fosil diaplikasikan untuk merunut sejarah geologi Pulau Jawa, antara lain materi dan asal pembentukannya, proses-proses geologi yang berlangsung (tektonik dan perubahan muka laut) serta evolusi manusia purba hingga saat sekarang.

Penerapan metode Prior Probability dengan Simulasi Paku menjelaskan diversitas bentuk dan macam kehidupan sepanjang sejarah geologi yang dianalogikan dengan berbagai macam bentuk dan fungsi paku.

Penerapan metode Kemiripan Maksimum menjelaskan komponen penyusun terumbu karang dan litofacies dalam tatanan komplek terumbu karang. Kegiatan outdoor activity ini dilakukan di Gedung Auditorium UPNVY.

Kata Kunci: *Ide kreatif, Simulasi Paku, Metode Kemiripan Maksimum, gambaran komponen terumbu di Auditorium UPNVY*

ABSTRACT

Creative ideas in the interactive-creative learning for Paleontology are as follows: the display for an existing fossil's inventory in Java, for instance, Prior Probability Theory and their applications with pin simulations, and the methode of Maximum Similarity and their applications by outdoor activity's learning on "evidence", for instance the Rajamandala Formation's reef complex at the wall and the floor of Auditorium UPNVY.

The display for fossil's inventory can inform the ages and their depositional environment during geologic history of Java or others, however beside their tectonic activity and sea level changes, and the early man lives in Java and their expansion. The theory of prior probability with pin simulation can reveals the organism diversity, their forms and the types of creations during geologic history of the earth. It may analogues to the pin's forms, types and their material as their function.

The maximum similarity method and their applications can inform the reef component and their lithofacies on a reef complex. The "marble" on the wall and the floor of the Auditorium of UPNVY are representative's coral reef for this purpose.

Key words: *Creative ideas, pin simulations, Maximum Similarity Methode, reef component display in Auditorium UPNVY*